## CIA-RDP86-00513R001548910019-3 "APPROVED FOR RELEASE: 08/23/2000

SOV/137-58-7-14601

Translation from Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 94 (USSR)

Shcherlin, I.D., Alyushin, Ye.i., Poletayev, G.S., AUTHORS:

Rabicheva, L.M., Slonimskiy, B.I.

Electrothermic Recovery of Zinc at the Belovo Zinc Plant TITLE.

(Elektrotermicheskoye polucheniye tsinka na Belovskom tsin-

kovom zavode)

Byul. tsvetn. metallurgii, 1957, Nr 21, pp 20-23 PERIODICAL:

A pilot-plant installation having an electrothermic furnace of 150 kw power was employed to melt sintered Zn concen-ABSTRACT:

trates of the following % composition Zn 57-60, Pb 0.7-1, Cu 2-2.3, Fe 6-9.4, Cd 0.1-0.15, CaO 0.9-1.9, MgO 0.7-0.8, SiO2 3.4-4.7, S 0.3-1. The charge (composition of the raw mix: 60 kg sinter, 12-13.5 kg coke breeze with 12-20% moisture and 14-20% ash, and 5 kg calcined lime) was mixed in a drum mixer, calcined for 3 hours at 800-850°C in a reducing atmosphere, 15-20 kg return dross was added to it, and the whole was charged into the furnace through a bell-shaped

sealed charging device. Smelting was at 68 v and 2250-2500

amps with graphited electrodes immersed 200 mm into the slag, Card 1/2

SOV/137-58-7-14601

Electrothermic Recovery of Zinc at the Belovo Zinc Plant

the bath depth being 400 mm and the slag temperature  $1350-1400^{\circ}$ . Optimum process conditions were assured in reducing the basic quantity of Fe and the formation of Fe-Cu alloy in which the noble metals were concentrated. Slag was tapped once each shift, the Fe-Cu alloy once every 10-20 days. The Zn gases and fumes were taken off the furnace through an aperture in the sidewall and an inclined gas line in the condenser (C), lined with magnesite brick in its lower portion and a floor made of carbon blocks. The temperature in the gas line was sustained at  $800-900^{\circ}$  and in the C at  $600-650^{\circ}$ . The gases left the C at 350-400° and proceeded to a scrubber irrigated with water. The extraction of Zn as metal having the following inclusions (%), Pb 1-1.5, Cd 0.1-0.13, Fe 0.1-0.5, Cu 0.01-0.02, was 60-70%. 15-20% of the Zn was trapped in the scrubber as blue powder enriched with up to 0.6%Cd. Up to 30% of the Zn was in the returns in the form of dross precipitated in the C. The dross and blue powder contained 88-93% Zn. When the lower portion of the furnace was lined with magnesite and cooled with water to form a lining hardened on the wall, a furnace campaign lasted > 2 months. Losses of Zn in the slags came to 1.5-6%, and recovery of the Cu in the alloy was 90-98%.

1. Zinc--Recovery 2. Electric furnaces+-Applications Card 2/2

Ye.Z.

SHCHERLIN, I.D., kand. sel'skokhozysystvennykh nauk.

Protective afforestation on virgin and waste lands. Zemledelie 6
(MIRA 11:3)
no.2:42-45 '58.

(Kazakhstan--Afforestation)

SHCHERLIN, I.D.; ALYUSHIN, Ye.I.; POLETAYEV, G.S.; RABICHEVA, L.M.; SIONIMSKIY, B.I.

Studying the electrothermal method of preparing zinc and metal powder at the Belovo Zinc Plant. Sbor. nauch. trud. GINTSVETMET no.15:298-309 '59. (MIRA 14:4) (Belovo (Kemerovo Province)--Zinc--Electrometallurgy)

Shokership, L. A. -- "An Experimental Investigation of the Prequency One report stills of Fleetre-Eag Television Teoders." Gand Teode Sci. Nascow -ow r Ungineering Inst. Mascow 1953. (Refer actively Emergel-Fizika, January 54)

So: STM 101, 22 July 1954

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AFMALIEW, Ed. C. S. M. M., G. T.

Rure metals in Kazard Stv... Tov. All Kaz. SSk. Ser. gool. no.4:75-03

(KITA 14:2)

(Kazaki Stv.--- Katals, Rare and minor)
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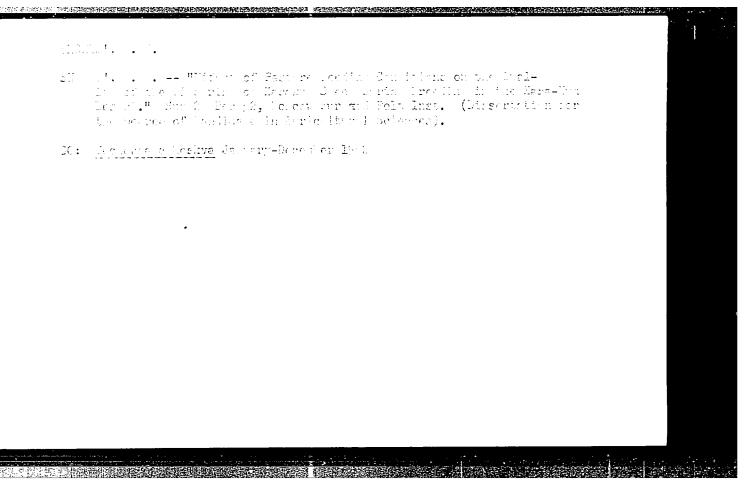
SHCHERVAN', A.N., akademik; EARATOV, E.I., kand.tekhn.nauk; RYZHENKO, I.A., gornyy inzh.

Temperature and gas-and-dust conditions in the downcast ventilation of stopes. Ugol' Ukr. 5 no.1:17-19 Ja '61. (MIRA 14:1)

1. AN USSR (for Shchervan').

(Donets Basin—Mine ventilation)

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GRACHEVA, N.D.; ZHINKIN, L.N.; SHCHERVAN', E.I.
        Using liquid emulsions in histoautoradiography. Med.rad. 1 no.2:
                                                                (HIRA 9:9)
        87-93 Mr-Ap 156.
        1. Iz patologoanatomicheskoy laboratorii (zav. L.V.Funshteyn)
        TSentral'nogo nauchno-issledovatel'skogo rentgeno-radiologicheskogo
        instituta (dir. - prof. M.N.Pobedinskiy) Ministerstva zdravookhra-
        neniya SSSR.
               (PHOTOGRAPHY,
                   auto-impression on photographic plate with liquid
                   emulsions of tissue sections labeled with radioisotopes
                    (Rus))
                                           (ISOTOPES,
               (HISOLOGY,
                                               same)
                   same)
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"Copolymerization of styrene and diphenyl," a paper presented at the 5th Congress on the Chamistry and Physics of High Polymers, 20 Jan-2 Feb 57, Moreow, Rubber Research Inst.

D-3,004,305

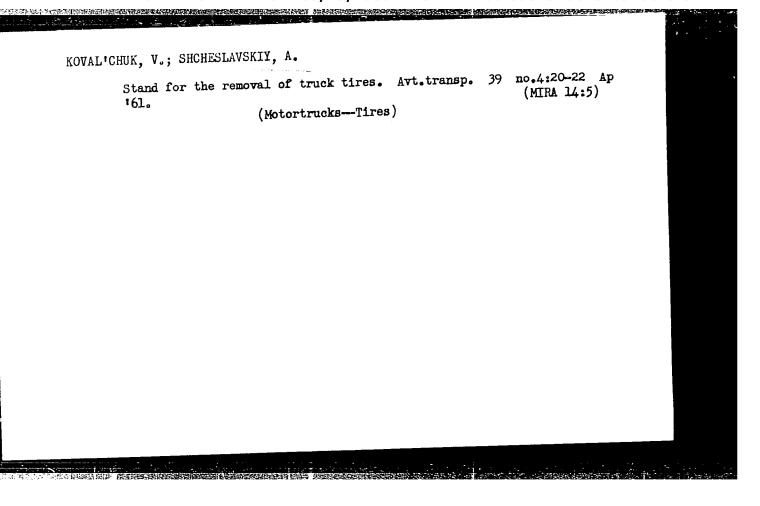
SHCHESLAVSKIY, A., inzh.

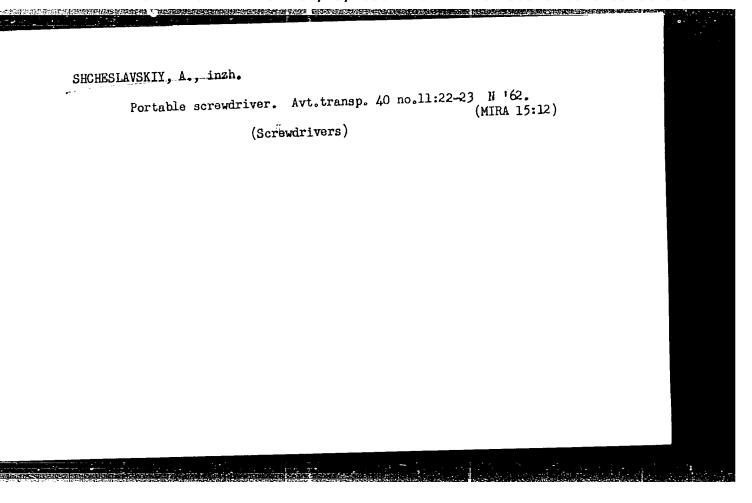
New stand for testing electric equipment of automobiles. Avt.
transp. 36 no.10:16-17 0 '58. (MIRA 13:1)
(Automobiles--Electric equipment--Testing)

SHOURSLAVERTY, A., inch.; BAS, L., inch.

Testing stand for hydraulic drives. Avt.transp. 37 no.4:18-20
(MRA 12:6)

(Oil-hydraulic machinery--Testing)



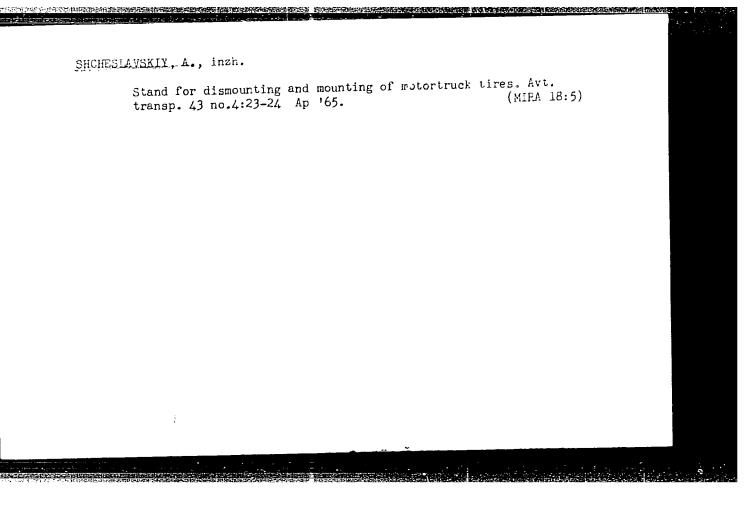


KARPEKIN, P., inzh.; SHCHESIAVSKIY, A., inzh.

New garage equipment. Avt. transp. 43 no.2:20-22 F '65.

(MIRA 18:6)

1. TSentral'noye konstruktorskoye byuro Ministerstva avtomobil'nogo transporta i shosseynykh dorog RSFSR.



a pajor j 20 Jan−2	. Thus, we called the concentration on the polymerization of isoprame," reserved at the Oth Congress on the Oberdstry and Physics of High Polymers, Feb 57, Moscow, Indhes Research Inst.	
B-3,6(4,)		
	·	

TOBILEVICH, N.Yu.; ZASYAD'KO, I.N.; MATEUSH, Ya.O.; VOLOSHKO, D.M.; KALINKINA, Z.M.; SHCHESNO, L.P.

Increasing the corrosion resistence of heat exchanging pipes for the sugar industry. Sakh. prom. 31 no.4:47-53 Ap '57. (MIRA 10:6)

1. TSentral'nyy nauchno-issledovatel'skiy institut sakharnoy promyshlennosti (for Tobilevich, Zasyad'ko and Mateush). 2. VNITI (for Shchesno).

(Pipe) (Corrosion and anticorrosives)

#### CIA-RDP86-00513R001548910019-3 "APPROVED FOR RELEASE: 08/23/2000

SOV/137-58-11 22983

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p lo4 (USSR)

Voloshko, D. M., Chizh, V. A. Shchesno, L. P. AUTHORS:

Investigation of the Diffusion of Sulfur in Metal With the Aid of Radio TITLE:

active Tracers (Issledovaniye diffuzii sery v metall s pomoshch vu

radioaktivnykh indikatorov)

PERIODICAL: Byul. nauchno-tekhn. inform. Vses. n. -i. trubnyy in t 1958.

Nr 4-5, pp 194-198

In order to verify the hypothesis that the source of contamination of 20A steel pipes with sulfur lies in the fine FeSO4 crystals remain-ABSTRACT:

ing on the surface of the pipes after pickling in H<sub>2</sub>SO<sub>4</sub> an investiga tion with tagged atoms was conducted. Fine FeSO<sub>4</sub> crystals containing radioactive S were applied onto specimens 1.5x25x50 mm of 20A steel which were dried and subjected to various types of heat treat ment: Annealing (920°C, 15 min), normalization (920° 15 min; 870°. 15 min) and recrystallization (670°, 15 min), after which a layer by

layer determination of the radioactivity of the specimens was performed. It is established that the diffusion of S during annealing (920°) occurs to

a depth of 0.17 mm and upon recrystallization (670°) to 0.04 mm. Card 1/1

VOLOSHEO, D.M., inzh.; KALINKINA, Z.M., inzh.; SHCHESNO, L.P., inzh.

Corrosion of pipes in evaporators in sugar refineries. Biul.nauch.tekh.inform.VNITI no.4/5:14/3-153 '58. (MIRA 15:1)
(Pipe, Steel--Corrosion)
(Sugar manufacture--Equipment and supplies)

VOLOSEKO, D.M., inzh.: CHIZH, V.A., inzh.: SHCHESHO, I.F., inzh.

Using radioactive tracers in investigating sulfur diffusion in metals. Biul.nauch.-tokh.inform.VNITf no.4/5:194-198 '58.

(Radioactive tracers--Industrial applications)

(Metals--Testing)

GASIK, M.I.; SHCHESNO, L.P.; KHITRIK, S.I.

Corrosion resistance of stainless chromium-nickel steel made with the use of various brands of ferrochromium. Izv. vys. ucheb. zav.; chern. met. 6 no.11:79-87 '63. (MIRA 17:3)

1. Dnepropetrovskiy metallurgicheskiy institut.

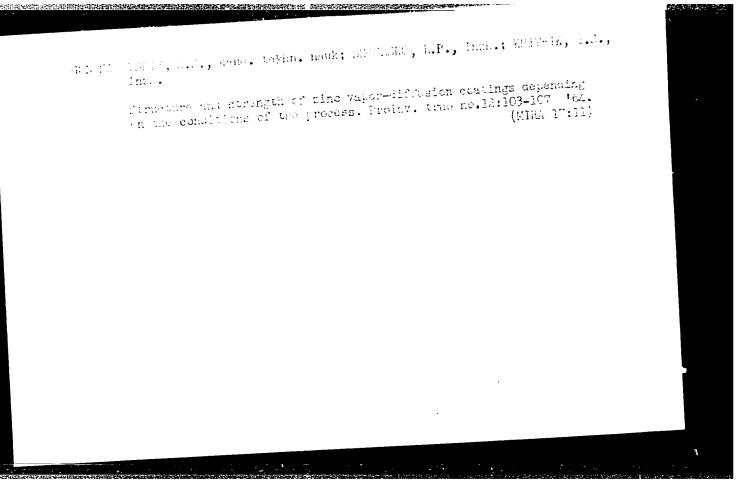
SHCHESNO, L.P.; CHEMADUROVA, Ye.Yu.; YAKOVLEVA, G.N.; BRECHKEVICH, V.V.

Methods of determining resistance to intercrystallite corrosion of electrically welded pipes. Avtom. svar. 16 no.7:90-94 Jl '63. (MIRA 16:8)

1. Ukrainskiy nauchno-issledovatel'skiy trubnyy institut.
(Pipe, Steel--Corrosion)
(Steel, Stainless--Corrosion)

SHOREDNO, L.F., inch.; DELVCHARC, G.A., inch.

Effect of the method of heating two-layer blanks (E1847 steel - Armoo-Greel) for not relling on the tendoncy toward intercrystalline corresion of 11847 steel in hot rolled clad pipe. Proizv. trub nc.10: 106-109 \*63.



IJP(c) EWP(j)/EWP(k)/EWT(m)/T/EWP(m)/EMP(m)/EMP(t)/EFF L 43085-66 SOURCE CODE: UR/0137/65/000/011/D034/DC34 AR6014377 ACC NR: RM/WH/WW/DJ/JD/HW/WB AUTHORS: Shchesno, L. P.; Shevchenko, G. A. TITLE: Tendency of hot-pressed pipes made from steel of type E1847, plated with Armco-iron, towards intercrystalline corrosion SOURCE: Ref. zh. Metallurgiya, Abs. 11D232 REF SOURCE: Sb. Proiz-vo trub. Vyp. 15. M., Metallurgiya, 1965, 90-95 TOPIC TAGS: bimetal, pipe, hot rolling, metal pressing, intergranular corrosion ABSTRACT: The tendency towards intercrystalline corrosion of (IC) of bimetallic pipes, manufactured by the method of hot-pressing (HP), was investigated. Hot-rolled pipes made from steel EISIA served as the initial experimental material in HP experiments. After machining the pipes did not show any tendency towards IC as determined by the method AM GOST 6032-58. The following lubricants were used during the HP of higher and liquid class. No. 2 during the HP of bisurface specimens: No. 1 - talcum and liquid glass; No. 2 fiber glass (on outer surface of pipe), graphite with oil (on the mandrel); No. 1 - 2 - talcum and liquid glass, after drying lubricant No. 2; No. 1 - 2a - talcum and liquid glass, in addition to lubricant No. 2. Prior to the experiments, the UDC: 621.774.001 Card 1/2

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548910019-3"

JD/HW IJP(c) EWT(m)/T/EWP(t) L 27475-66 SOURCE CODE: UR/0413/66/000/009/0033/0033 ACC NR: AP6015626 (N) INVENTOR: Shchesno, L. P.; Goncharevskiy, M. S.; Tsvetun, A. S.; Shapiro, L. A.; Brechkevich, V. V. ORG: none TITLE: Method of heat treatment of stainless steel tuves. Class 18, No. 181144 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 9, 1966, 33 TOPIC TAGS: steel, stainless steel, steel tube, steel corrosion, intergranular corrosion, corrosion prevention ABSTRACT: This Author Certificate introduces a method of heat treatment of stainlesssteel tubes. The tubes are vacuum annealed to decarburize' the surface layer. Prior to vacuum annealing, an oxide film is formed on the tube surfaces by annealing in air at approx. 800C for 10-15 min to prevent intergranular corrosion. SUBM DATE: 29Jan63/ ATD PRESS:4260 SUB CODE: UDC: 621.785.345

SHCHESNO, T.Yu.

The contribution of A.O.Piotrovskii and A.A.Zengireev in the field of the biochemistry of carbohydrate metabolism in the muscles. Biokhimiia 19 no.1:111-115 Ja-F '54. (MLRA 7:3)

1. Kafedra biokhimii Dnepropetrovskogo meditsinskogo instituta.
(Muscle) (Carbohydrate metabolism) (Piotrovskii, Anton
Osipovich, 1827-) (Zengireev, Appolinarii Alekseevich, 1852-1881)

#### CIA-RDP86-00513R001548910019-3 "APPROVED FOR RELEASE: 08/23/2000

\$/0300/64/036/001/0052/0058

ACCESSION NR: AP4014378

AUTHOR: Shchesno, T. Yu.

TITLE: Effect of fatigue-producing work on the amount of nucleic acids and other phosphorus compounds in functionally different rabbit muscles

SOURCE: Ukrayins'ky\*y biokhimichny\*y zhurnal, v. 36, no. 1, 1964, 52-58

TOPIC TAGS: physiology, phosphorus compounds, muscles, white muscles, red muscles,

nucleic acids, RNA, DNA, phospholipid, muscle fatigue, acid-soluble phosphate

ABSTRACT: It was established in experiments on rabbits that fatigue-producing work affects differently the phosphorus-compound content of functionally different muscles, i. e., white and red muscles. Red muscles have a higher nucleic acid content than white muscles. Fatigue-producing work lowered the level of nucleic acids in both types of muscle because of a reduction of the amount of RNA, while the DNA content did not change. The extent of reduction of the RNA content was more pronounced in white muscles than in red muscles. Presumably the higher nucleic-acid content of rad muscles and the more sparing use of RNA by them is

Card 1/2

ACCESSION NR: AP4014378

associated with the higher capacity for work and lower susceptibility to fatigue of these muscles. Small differences in the total P, acid-soluble phosphates, and phospholipid content of red muscles as compared with white muscles were also observed after fatigue-producting work: the P and acid-soluble phosphate content decreased as a result of fatigue to a greater extent in red muscles than white muscles, while the phospholipid content remained unchanged in red muscles and increased in the majority of cases in white muscles. Orig. art. has 3 tables.

ASSOCIATION: Kafedra Biokhimii Dnepropetrovskogo Meditsinskogo Instituta (Chair of Biochemistry, Dnepropetrovsk Medical Institute)

SUBMITTED: 27Apr63

DATE ACQ: 14Feb64

ENCL: 00

SUB CODE: AM

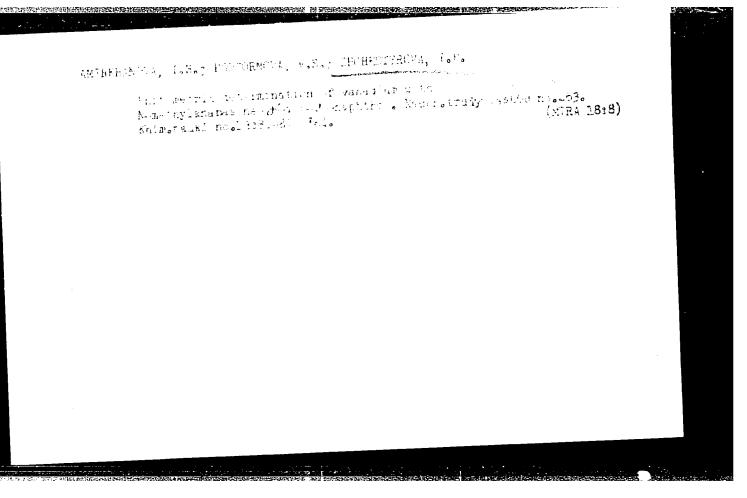
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OTHER: OOL

Card 2/2

Levels decreased significantly and the level of inorganic phosphorus increased considerably. In 1½ mos. the general levels of inorganic phosphorus, phosphocreatine, ATP, anter soluble proteins, myosin and collagen decreased in the replanted extremity muscles. RNA and DNA levels rose. In a year the general levels of nucleic acids, RNA, DNA, water soluble proteins and their fractions were normalized. Phosphorus compounds, particularly phosphocreatine, ATP and inorganic phosphorus, were poorly restored. In 5 to 7 yrs the levels of nucleic acids, water soluble proteins and inorganic phosphorus fractions were completely restored in the extremity muscles; collagen and myosin levels were partially restored. Phosphoreatine, ATP and general phosphorus levels remained considerably reduced compared to norms. Extremities kept at room temperature for 2 hrs failed to accrete. N. S. [Translation of abstract].

SUB CODE: 06



20230

5/135/61/000/00<sup>4</sup>/009/012 A006/A101

12300

AUTHOR Shohetanov, D. F., Engineer

TITLE: Plash Butt Welding of Sp. AMu 9-2 (Br. AMts 9-2) Bronze with AMu (AM

TITLE: Plast Block to 100 of 150 of 1

FERICOTTAL Syarochnoye proizvedatvo, 1961, No. 4, pp. 30 - 31

TEXT: Investigations made at the laboratory of automating technological resistance-welling processes at VNITESO have shown that in welding bronze with aluminum alloys, conditions assuring the formation of high-quality joints depend on intensive flashing with considerable plastic deformation, and subsequent upsetting. Tunes of 16 and 26 mm diameter and 2.5 - 5 mm wall thickness were flashwelfed on the (MSKN-15C) machine with pheumo-hydraulic drive. Basic welding parawelfed on the (MSKN-15C) machine with pheumo-hydraulic drive. Basic welding parawelfed on the (MSKN-15C) machine with pheumo-hydraulic drive. Basic welding parawelfed on the (MSKN-15C) machine with pheumo-hydraulic drive. Basic welding parawelfed to the flashing speed should in all cases be not meters are given in Table 1. The mean flashing speed from zero to the upper leave 10 - 12 mm/sec; the increment of the flashing speed from zero to the upper limit must be conducted according to parabolic law (Pig. 1) V = K , the type of the instantaneous flashing rate; K is the coefficient (in the experiments V is the instantaneous flashing time. Mechanical tests made with the welded joint yielded satisfactory results, given in table 2. Metallographical examinations

Card 1/4

20230

S/135/61/000/004/009/012 A006/A101

Flash Butt Welding of Bp .AMu 9-2 (Br. AMts 9-2) Bronze with AMu (AMts) Aluminum Alloy

proved the high quality of weld joints. An editorial note says that the present investigation does not show the effect of sticking of aluminum particles on present and on the corresion resistance of the joints which, according to ZII experience, is degraded. There are 2 tables and 4 figures

ASSOCIATION: VNIIESO

Cable 1:	Parameter values		
Welding conditions	for 16 mm diam, tubings	for 26 mm diam tubings	
Wall thickness of tubing in mm Section surface of tubings in mm <sup>2</sup> Secondary voltage in v Flashing current in amp	2.5 106 4.2 7600	3.0 216 5.9 9000	

Plash Butt Welding of $\overline{b}_p$ . Arlu 9-2 (Br. AMTs um Alloy		
Table 1 continued:  Upsetting current in amp  Density of flashing current in amp/mm²  Density of upsetting current in amp/mm²  Total setting length in mm  Total flashing magnitude in mm  Total upset magnitude in mm  Flashing time in sec  Upsetting time in sec  Upsetting speed in mm/sec  Upsetting speed in mm/sec  Upsetting force in kg  Specific upsetting pressure in kg/mm²  Specific upsetting power in kvamp/mm²	25300 71 238 22 18 4 1.5 0.02 12 200 2120 20 0.52	41.3 162 2 <sup>4</sup> 18 6 1.8 0.03 10 200 4800 22 0.48

Card 3/4

20230 S/135/61/000/004/009/012 A006/A101

Flash Butt Welding of 5p .AMu9-2 (Br.AMts 9-2) Bronze with AMu (AMts) Aluminum Alloy

Table 2:

Pigure 1: Graph of flashing speed changes in welding

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a) specimens; b) Bending angle in degrees; c) Number of bendings; d) Breaking force in kg; e) Ultimate strength of weld joint in kg /mm²; f) location of fracture; g) number of specimens tested. 1-AM ts alloy; 2-welded specimen of 16 mm in diameter; 3-welded specimen c

		•					
	<u> </u>	e,	ری	, d)	e)	Tablu	ца <b>2</b> /
:	Обризцы <i>О</i>	Угол загиба в град.	Число перегибов	Усилие разру- шения три раз- рыве в кл	Предел проч- ности сваристо соединения в кг/жм?	Место разруше- ния при разрыве	число испытан. ных образцов
3	Сплав АМц Сварной обра-	180	2	_	17*		_
3	зец днаметром 16 мм	180	2	1320—1350	12,5—12,7	АМц	10
	зец диаметром 26 мм	180	2	23002400	10,611,0	AMu	10
ĺ	Примечания основному металлу.	e. Pas Tada	фуш кчиь	епие сварных ие данные.	образдов пр	онсходна	о по

of 26 mm diameter. Remark: Fracture of the welded specimens occured in the base card 4/4 metal. \*) Specification data

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP8

CIA-RDP86-00513R001548910019-3"

s/0135/64/000/006/0015/0016

ACCESSION NR: AP4040697

AUTHORS: Shehetanov, D. P. (Engineer); Miftakhov, R. Sh. (Engineer)

TITLE: Butt wolding of thin AMg3M pipes by the flashing off technique

SOURCE: Svarochnoye proizvodstvo, no. 6, (630), 1964, 15-16

TOPIC TAGS: welding, butt welding, aluminum alloy AMg3M, thin wall pipe, forging,

ABSTRACT: The application of fusion technique to the butt-welding of thin-walled aluminum oxide aluminum pipes was studied to determine the optimal conditions and to prevent

formation of oxides. Forging pressures of 27-30 kg/mm<sup>2</sup> were used for the expulsion of oxidized metal from the welds. Good results were obtained when the butt-wolded AMG3M pipes were of different wall-thickness: 40 x 1; 41 x 2; 42 x 2 mm. Further improvement was achieved with the use of separate current lines for the upper

and lower electrodes; the current density was 200-300 amp/mm<sup>2</sup>. With this techand lower electrodes, one called together thin-walled pipes with thickness-O.D ratios nique it is possible to weld together thin-walled pipes with thickness-O.D ratios up to 1:50 and higher. Sample strips cut off the welded connections were tested. The tensile test showed that failure occured in the basic metal outside the thermal effect zone of welding. According to metallographic analyses the butt-welded

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ACCESSION NR: AP4040697	· · · · · · · · · · · · · · · · · · ·			
iffered from the basic	in structure and free of inclus metal only in some deformation preciable effect on their stren	of the fiber,	caused by	y
SSOCIATION: none			,	
UBMITTED: 00		<b>;</b>	ENCL:	00
SUB CODE: MM	NO REF SOV: 000		OTHER:	000
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L 34951-65 EPA(s)-2/EWT(m)/EWA(d)/EWP(v)/T/EWP(t)/EWP(k)/EWP(b)/EWA(c) Pf-4
MJW/JD/HM/HW

ACCESSION NR: AP5007338 8/0135/65/000/003/0021/0022

AUTHOR: Shchetanov, D. P. (Engineer)

TITLE: Flash welding of titanium-alloy pipes 4

SOURCE: Svarochnoye proizvodstvo, no. 3, 1965, 21-22

TOPIC TAGS: titanium alloy tube, thin walled pipe, pipe welding, flash welding, weld metal structure, weld metal strength, basic welding parameter

ABSTRACT: High-quality butt joints between VT1, VT2, OT4, and VT5-1 titanium-alloy tubes with a wall thickness of 1.0—1.5 mm were obtained by flash welding with rigidly timed internal and external argon shielding. The internal shielding was effected by the flow of argon fed at a pressure of 0.05—0.07 mm through the open end of one of the tubes; the argon flow begins at the moment the pipes are clamped and stops at the beginning of upsetting. On the outside, the weld and its vicinity are shielded by argon flowing at a pressure of 0.03 atm through holes drilled in the clamp jaws; in this case, the argon flow begins with the beginning of flashing and stops after the upsetting is completed. Welding of VT1 titanium tubes 26 mm in diameter takes 1.6 sec and requires 0.28 \$\ell\$ of argon per joint compared with 4 sec and 0.66 \$\ell\$ in TIG welding. The tubes with a 1:26 ratio of the outside diameter to

Card 1/2

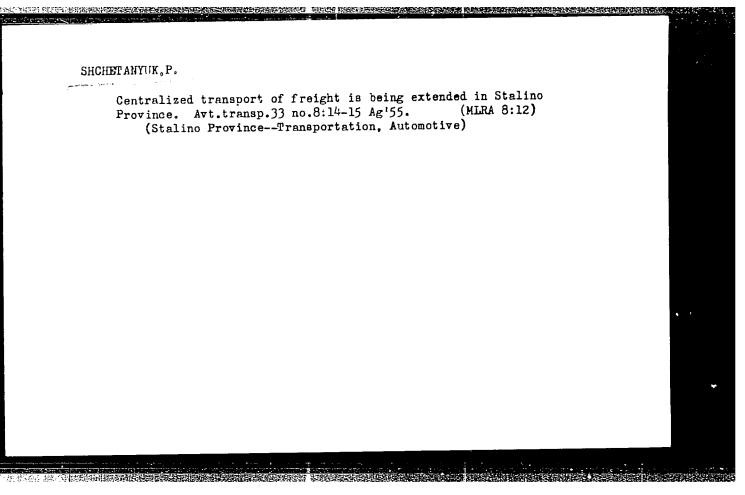
	L 34951-65		
	(1:30—1:50) have to be provided in two operations. The welds distinct boundaries between joining that the parent furnace cooling to 6500 and 1	in one operation. Tubes with a led with heavier insert rings as have a homogeneous structure wined parts. The weld metal mic metal. Heat treatment (annea hr holding at that temperature properties of the joints to the	ithout inclusions and crohardness is slightly ling for 1 hr at 850C,
	the parent metal. Orig. art.	has: 2 figures and 3 tables.	
	the parent metal. Orig. art. ASSOCIATION: none	nas: 2 ligures and 3	SUB CODE: MM
	the parent metal. Orig. art.	has: 2 figures and 3 tables.  ENCL: 00  OTHER: 000	
Andrews of the second s	the parent metal. Orig. art.  ASSOCIATION: none SUBMITTED: 00	ENCL: 00	SUB CODE: MM

NEKRASOV, B.M.; MIRKIN, A.M.; FAYGENBAUM, D.S.; SHCHETANOV, D.T.

Automatic line for the assembly and welding of standard troughs for the SKR-11 scraper-conveyers. Avtom.svar. 14 no.7:71-78 Jl '61. (MTRA 14:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektrosvarochnogo oborudovaniya.

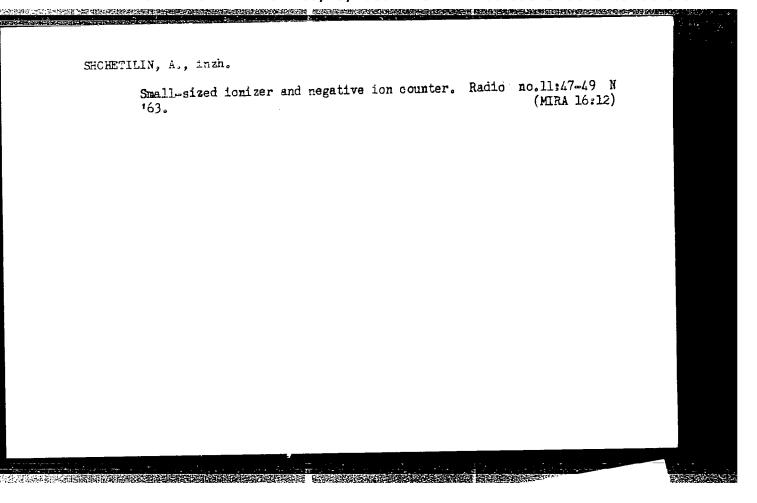
(Cenveying machinery--Welding) (Welding--Equipment and supplies)



SHCHETILIN, A., izobretatel'

Ionization chamber in a match box. Izobr.i rats no.10:12
0'62. (MIRA 15:9)

(Ionization chambers)



CIA-RDP86-00513R001548910019-3 "APPROVED FOR RELEASE: 08/23/2000 s/031/60/000/011/007/008 A161/A133 Tleulin, S. D., Shchetilin, A. P., Khayrushev, Ye. A. Akademiya nauk Kazakhskoy SSR, Vestnik, no. 11, 1960, 104 - 106 The subject myograph has been developed at the Institut krayevey Pin tube electromyograph The subject myograph has been developed at the Institut krayevey of Sciences at the Institut krayevey of the Academy of Sciences of the Academy of the Market. The patologii AN KazSSR (Institute of Regional Pathology of the market. The of the KazSSR) because of the absence of modern myographs on the market. AUTHORS: patologii AN KazSSR (Institute of Regional Pathology of the Market. The of the KazSSR) because of the absence of modern myographs on the hiological of the KazSSR) because the nin tube amolifier for measurements of hiological new features in it are the nin tube amolifier. of the Kazssk) because of the absence of modern myographs on the market. The of the Absence of modern myographs on the market. The amolifier for measurements of biological currence features in it are the pin tube amplifier for measurements of the amolifier new features in it are the pin tube amplifiers (Rig 1 and 2). Actually the amolifier new features in it are the pin tube amplifiers (Rig 1 and 2). TITLE: new reatures in it are the pin tube amplifier for measurements of blological currents, and electronic voltage stabilizers (Fig. 1 and 2). Actually, the fixed corrects, and electronic voltage stabilizers and V. T. Siroko of the Institut fixed corrects, had been designed by V. A. Kozhevnikov and V. T. PERIODICAL: nad been designed by V. A. Kozhevnikov and V. I. Siroko or the institut Ilziologil im. J. P. Pavlov and J. P. Pavlov and J. P. Pavlov and J. P. Pavlova AN SSSR (Institute of Physiology imeni I. P. Institute of Physiology imeni I. P. Pavlova AN SSSR (Institute of Physiology imeni I. P. Pavlova AN SSSR (Institute of Physiology imeni I. P. Pavlova AN SSSR) who used the system of A. M. Andrew and of G. Klein (both of 1955, the names SR) who used the system of A. M. Andrew and of G. Klein (both of 1955). im. I. P. Pavlova AN SSSR (Institute of Physiology imeni I. P. Pavlov of the AS U Klein (both of 1955, the names Klein (both of 1955, who used the system of A. M. Andrew and of G. Klein (both of 1955, the names are given in original English and German) with octal ("oktal nave") base tubes. TEXT: on) who used the system of A. M. Andrew and of G. Klein (both of 1955, tubes. ") base tubes are given in original English and German) with octal ("cktal'nyve") chikovvve" in the new amplifier these are replaced by pin-type base tubes ("pal'chikovvve") are given in original English and German) with octal ("oktal nyye") base tubes." and German) with octal ("oktal nyye") base tubes ("pal'chikovyye").

The new amplifier these are replaced by pin-type base tubes ("pal'chikovyye").

The tubes are operating from a 110 - 220 v network (can also work from a storage. In the new amplifier these are replaced by pin-type base tubes ("pal'chikovyye").

The tibes are operating from a 110 - 220 v network (can also work from a the room battern)

The balanced evetem nermits recording without screening off the nermits recording without screening of the nermits recording without screening without The tubes are operating from a 110 - 220 v network (can also work from a storage battery). The balanced system permits recording without screening off the room battery).

The balanced system permits recording without screening off the room battery).

The balanced system permits recording without screening off the room battery). battery). The balanced system permits recording without screening off the room (SN250) from the common interference sources like electric lighting bulbs, CH 250 Card 1/6

s/031/60/000/011/007/008

voltage stabilizer, etc. The amplification factor (from input to electron-ray tube) is about 1,000,000; the sensitivity (input-photo film) 10  $\mu$ v in 1 mm; Pin tube electromyograph the frequency band amplified without frequency and amplitude distortions is 1 + 2000 cycles. The principle of the system had been described in 1957 by Kczhevnikov and Siroko, therefore only the new features are mentioned in the article. The four amplifier cascades (Fig. 1) include 6-H2  $\Pi$  (6N2F) pin base tubes. Local negative feedback between the I and II cascades could be used in view of the high amplification reserve, and the zero line drift and the interference level are rediced to minimum. The total resistance in the cathode of the first cascade tube (negative feedback for symmetrical signals) is high, due to the J<sub>5</sub> (L<sub>5</sub>), a 6K4∏ (6K4P) type used. The amplifier is assembled on a plexiglas frame (for it was not possible to use a metal panel because of interferences), and the frame is fixed on foam rubber dampers. The parts of the amplifier are of standard pattern but carefully selected. The tube anodes are supplied from stabilized rectifiers. The elestronic voltage stabilizers (Fig. 2) are assembled in a combination compensational and parametric system the principle of which had been described in literathre in 1957 by I. G. Gol'dreyer (Russian name) and in 1941 by E. E. Miller (Eng. ligh spelling). The reference voltages are removed from the (T2C (SG2S) and 85A 2 (85A2) stabilivolts and fed to the grids of the left halves of the J3 and J4

card 2/6

Pin tube electromyograph

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S/031/60/000/011/007/008 A161/A133

tubes of 6H 9 (6N9) type working as cathode followers. The right halves of these tubes are amplifying the output voltage from the devider ( $R_{13}$ ,  $R_{14}$ ,  $R_{15}$ ,  $R_{16}$ ). The second cascades are also assembled on 6N9 tubes and are working similarly eas cathode follower and amplifier ( $7_5$ ,  $7_6$ ). The  $7_7$  and  $7_8$  tubes are the serve elements in the system. The rectifiers are of the standard type, with  $7_7$  eshaped does not exceed 0.2 mv. The record from the electron-ray tube of 1311037 (131037) a 131037 (131037) a 131037 (131037) a 131037 (131037) motor for pulling the film with 80 and 120 mm/sec speed. The commutator of the myograph has a built-in charmeter for measuring the resistance the supply voltage, an input voltage calibrator, and two switches. The recording held in plexiglas holders. The grounding electrode is of standard execution worker F. G. Trusov who participated in the development of the myograph. There

Card 3/6

### CIA-RDP86-00513R001548910019-3 "APPROVED FOR RELEASE: 08/23/2000

3971,0 S/058/62/000/000/130/136 A062/A101 Referativnyy zhurnal, Fizika, no. 6, 1962, 25 - 26, abstract
Nauchno-tekhn. sb."

6-3-50 shch
("Mashinostr. i energ. Kazakhstana. Nauchno-tekhn. sb." 2:131 Shchetilin, A. P. Portable direct reading ion counter ACTGOR : Methods of measuring the ion concentration in the atmospheric air TITLES methods of measuring the ion concentration in the atmospheric air The ion and diagrams of various types of ion counter indicators are described.

and diagrams of various types of ion counter indicators are described. PERIODICAL: and diagrams of various types of ion counter indicators are described. The ion counter indicators are described and an an accumer is shaped as a cylinder having an external cylindrical coating and an amplification of counter is shaped as a cylinder make applied amplifier must have an amplification of counter is shaped as a cylinder make applied amplifier must have an amplification of counter indicators are described. counter is snaped as a cylinder having an external cylindrical coating and an amplification. The applied amplifier must have an amplification to increase the input resistance 1013 - 1014 ohm. To increase the input resistance for converting the input resistance, it is necessary to employ a complex device for converting the input resistance. It is necessary to employ a complex device for converting the input resistance. the input resistance, it is necessary to employ a complex device for converting the input resistance, it is necessary to employ a complex device for converting the into decomposition of the input resistance, it is necessary to employ a complex device for converting the into decomposition of the input resistance, it is necessary to employ a complex device for converting the into decomposition of the input resistance in a more device. the input resistance, it is necessary to employ a complex device for converting a more simple does, into a.-c., amplifying it and then reconverting it into d.-c. A more simple diagram is developed making use of a one-tube amplifier with a miniature double d. c. into a.-c., amplifying it and then reconverting it into d.-c. A more simple diagram is developed making use of a one-tube amplifier with a miniature double that are trade 232 II (2020) connected according to the bridge belonge diagram is developed. CHARTAM is developed making use of a one-tupe amplifier with a miniature double to the bridge balance circuit.

The the capture 232 (2E2P) connected according to the bridge balance circuit.

The tonometer has the following stage a transistor amolifier is used. The tonometer has the following stage a transistor amolifier is used. Tetrode 2 d211 (2E2P) connected according to the bridge balance circuit. In the many transitions and the following to the bridge balance circuit. In the bridge balance circuit. card 1/2

#### CIA-RDP86-00513R001548910019-3 "APPROVED FOR RELEASE: 08/23/2000

S/058/62/000/006/130/136 A062/A101

Portable direct reading ion counter

fundamental characteristics: number of recorded ions 500 - 3,000,000; volume speed of the sucked air 500 cm<sup>3</sup>/sec; mobility of the measured ions 1.1 ÷ 0.1 cm<sup>3</sup>/sec. V, drift of the zero for 1 hour operation not more than 2% of the upper limit of the measurements.

v. M.

[Abstracter's note; Complete translation]

Card 2/2

# "APPROVED FOR RELEASE: 08/23/2000

## CIA-RDP86-00513R001548910019-3

P0081 S/263/62/000/010/012/013 1028/1250

24.6800

Shchetilin, A. P. AUTHOR.

TITLE

PERIODICAL.

Referativnyy zhurnal ,otdel'nyy vypusk.32. Izmeritel'naya tekhnika, no. 10, 1962, 59-60,, Portable direct-reading ionic counter abstract 32.10.439. "Mashinostr. i energ. Kazakhstana. Nauchno-tekhn. sb.", no. 4 1961,

The paper describes a direct-reading portable ionic counter for the measurement of the mobility and concentration of ions of both polarities, developed at the Institute of Regional Pathology and of the ANKazSSR. Ionized air is sent by means of a ventilator across a cylindrical capacitor having an external cylinder-plate and an internal measuring electrode. A constant voltage, of magnitude dependent on the mobility of the ions, is supplied to the external plate. An electrostatic charge, equal and opposite to the charge of the plate, is then induced on the measuring electrode. When ionized air is sent through the capacitor, ions of a selected mobility precipitate on the measuring electrode. A sensitive voltmeter, graduated in ions, and connected to a high ohmic resistance, permits a direct reading on the scale. The circuit of the tube voltmeter consists of an electrometric double miniature tetrode 29П2 (2E2P) connected according to the bridge balance circuit. The vacuum resistance in glass balloons of the KBM (KVM) type of  $10^{12}\Omega$  is used as a high resistance and ЛМ (LM) (or M-24) microammeter with scale (0-50).10-6 a serves as an indicator. The use of a rougher

Card 1/2

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NEKIN, A.A.; SHCHRTILIN, A.P.; HENASHEV, N.V.

Small-scale electric current feeding device to an electrostatic precipitator. Trudy Inst. gor. dela AN Kazakh.SSR 12:164-171 (MIRA 17:8)

163.

KEKIN, A.A.; HE MADHEV, N.V.; CHCHETILTH, A.P.

Methods of determining the dispersing composition of drops of spraying water. Trudy Inst. gor. dela AN Kazakh.SSR 12: 172-177 \*63. (MIRA 17:8)

EEKIN, A.A.: SHCHETILIN, A.P., Decladed, N.V.

Increasing the magniaring spacing of water by changing it in an electrostatic field. Truly instigning all fazawn. SSR 15:824-369 in.Z.

(MIRA 18:2)

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50V/180-59-5-14/37

Chaporova, I.N., and Shchetilina, Ye.A. (Moscow) AUTHORS:

Solubility of Tungsten Carbide in Cobalt and Nickel TITLE:

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh

nauk, Metallurgiya i toplivo, 1959, Nr 5, pp 91-96 (USSR)

ABSTRACT: The author mentions the diversity of published opinions

on the solibility limits of tungsten carbide WC in cobalt and nickel (Refs 1-8). The object of the present

work was the more precise determination of the

solubility in cobalt compared with that in nickel and

the study of some of the properties of the solid

solutions formed. Alloys were prepared from tungstencarbide, cobalt and nickel powders (Table 1).

solubility determinations mixtures of cobalt with 2, 4,

6, 10, 12, 15, 18 and 20 weight % WC and of nickel with 6, 15, 18 and 20 weight % WC were prepared. Compacted

cylinders 18 mm in diameter covered in graphite

particles were reduced in a hydrogen stream at 700-800°C

for 5 hours. Alloys were prepared by fusion and sintering for 1-2 hours at 1200-1450 °C in a laboratory

vacuum furnace, followed by cooling in the furnace at

about 200-300 oc per minute to 700-800 oc.

67802 SOV/180-59-5-1<sup>1</sup>4/37

Solubility of Tungsten Carbide in Cobalt and Nickel

Carburizing (to make good the C-deficiency of the WC preparation) sintering of specimens at 1250-1450 °C was effected in a current of hydrogen in contact with carbonaceous material. Microstructural investigation showed that the WC-Co alloys with under 12% WC contain a single phase (Fig 1) and those with over 12%, two (Fig 2). Carburizing treatment led to the appearance of lamellar graphite inclusions (2, 4 and 6% WC) and also (10, 12, 15 and 18% WC) a WC phase in a eutectic. Rapid cooling in water gave a WC + Co-phase + C eutectic at grain boundaries (Fig 3); cooling in the furnace gave the corresponding two binary eutectics. The author concludes that with excess carbon the solubility of WC in cobalt at the eutectic temperatures does not exceed 10 weight %。 The authors' previous work (at VNIITS in 1954-56) indicates (Fig 4a) that a higher solubility is obtained with lower carbon contents. For the nickel alloys prepared by vacuum sintering at 1200-1425 oc rapid quenching was adopted. Fig 5 shows the absence of WCphase particles and the presence of carbon inclusions in the 15% WC alloy vacuum melted at 1380 °C. Fig 6 shows

Card 2/3

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Solubility of Tungsten Carbide in Cobalt and Nickel

individual crystals of WC and nickel-graphite eutectic in the 18% alloy vacuum melted at 1350 oc. In 15% alloys obtained under carburizing conditions no WC phase was detected. The authors conclude that the limiting solubility of WC in nickel in the presence of structurally free carbon is about 15 wt %. The results of X-ray investigation (including lattice-parameter determinations of cobalt) of WC-Co alloys are given in Table 2; they confirm those of microscopic examinations of the same samples. Fig 7 shows the lattice parameter of nickel in relation to the WC-content, the value rising from 3.517 for pure Ni to 3.545 % for melted 20% WC alloy. Here too X-ray results confirm those of microscopic investigation. Microhardness determinations showed that with increasing WC-content and especially after the appearance of the WC-phase the microhardness rises. Fig 8 shows the microhardness vs WC-content for nickel; this was always less than that of the cobalt-base alloys. There are 8 figures, 2 tables and 8 references, of which

Card 3/3

2 are Soviet, 5 English and 1 German.

SUBMITTED: May 22, 1959

SOV/129-59-6-5/15

Shchetilina, Ye.A. (Engineer) and Chaporova, I.N. (Cand. Tech. Sci.) AUTHORS:

Interaction of Nicbium Carbide with Cobalt (Vzaimcdeystviye karbida niobiya s kobal'tom) TITLE:

HERE THE RESIDENCE OF THE PROPERTY OF THE PROP

PERIODICAL: Metalloyedeniys i termicheskaya obrabetka metallov,

1959, Nr 6, pp 19-23 (+ 2 plates) (USSR)

ABSTRACT: For investigating the system Niebium Carbide - Cotalt,

the specimens were produced by powder metallurgy methods from pulverized niobium carbide and ochalt.

The chemical analyses of these materials are entered in

Table 1, page 19. The specimens were placed in corundum crucibles which were put into graphite dishes and heated for two hours at 1250, 1300, 1320, 1340, 1350, 1375 and 1400 °C followed by rapid cooling

(hardening) in the coolers (refrigerators) of the furnace. The specimens were sintered at 1225, 1450 and 1550 °C and during the tests temperature was controlled automatically with an accuracy of 2 5°C. Data on the state of the specimens after sintering and the results of microstructure investigations of some of these are

Cardl/3 entered in Table 2, page 20. In Figs 1-3 (places)

SOV/129-59-6-5/15

Interaction of Niobium Carbide with Cobalt

microstructure photographs are reproduced of cobalt with various percentages of NbC. In Fig 4 the dependence is graphed of the linear shrinkage of the investigated alloys on the sintering temperature. In Fig 5 the dependence is graphed of the linear shrinkage as a function of the carbide content for the sintering In Fig 6 an approximate temperatures 1250 - 1235 °C. diagram of state of the system NbC-Co is reproduced, which is based on the data derived from the here-On the basis of the data described investigations. of the metallographic investigations and measurement of the shrinkage of the specimens during sintering, it was established that the eutectic appears for a NbC content of about 0.5 mol %. Consequently it can be assumed that the solubility of niobium carbide in cobalt at the fusion temperature of the eutectic does This was also confirmed by not exceed 0.5 mol %. X-ray data; the lattice parameters of pure cobalt and of the cobalt phase in the alloys containing 0.5 - 3 mol % NbC did not differ. Comparing the here-given data on the system NbC-Co with results of investigations

Card2/3

Interaction of Niobium Carbide with Cobalt

of the system TiC-Co published earlier (Ref 6), an
anology can be observed between the interaction of
niobium carbides and of titanium with cobalt: both
systems are eutectic in character, the maximum
solubility in the solid state is approximately the same
in both cases and the fusion temperatures and the
composition of the eutectics also did not differ

greatly.
There are 6 figures, 3 tables and 6 references, 5 of which are Soviet and 1 English.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel skly institut tverdykh splavov (All-Union Scientific Research Institute for Fard Alloys)

Card3/3

31,701 \$/137/62/000/002/0'#/1'# A006/A101

15 2460

AUTHOFS: Chaporova, I. N., Shchetilina, Ye. A., Serebrova, S. I.

On the effect of the composition of carburizing phases on some mechanical properties of cermet WC-Co and WC-Ni sintered carbides

FERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 33, abstract 2G263 ("Sb. tr. Vses. n.-i. in-t tverdykh splavov", 1960, no. 2, 90-104)

The authors studied the effect of the cooling rate on the composition of carburizing phases and the mechanical properties of WC carbides with 10 and 30% Co or Ni, differing by the C content. The C content varied depending on the initial composition of the charge and sintering conditions (filling, atmosphere). Slowly cooled carbides with 10% Co, independent of the C content, showed in all the experiments higher  $\delta t_1$  than rapidly cooled carbides. Carbides with 30% Co showed on the contrary higher strength in rapid rather than in slow cooling. Changes in hardness  $H_{\rm V}$  of WC-Co and WC-Ni carbides cooled at various rates, were not revealed. WC-Ni carbides are less hard and durable than WC-Co carbides of an anologous composition. This difference is caused by different properties of pure metals and solid solutions of their base. No

Card 1/2

S/180/61/000/001/011/015 E021/E406

AUTHORS: Chaporova, I.N. and Shchetilina, Ye.A. (Moscow)

TITLE: The Limits of the Single-Phase and Two-Phase Regions

in the Tungsten-Carbon-Cobalt and Tungsten-Carbon-

Nickel Systems  $\eta = \eta$ 

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh

nauk, Metallurgiya i toplivo, 1961, No.1, pp.126-132

Results of studies of the limits of the single phase TEXT: (Co or Ni) and two-phase (Co phase + WC or Ni phase + WC) regions Alloys were made from powders of tungsten carbide, are given. cobalt, nickel, and tungsten. All the samples after pressing were sintered at 650 to 700°C in a current of hydrogen. The alloys were further sintered in a laboratory vacuum furnace at temperatures of 1400 to 1450°C. Metallographic analysis was carried out. Alloys in the ternary W-C-Co system containing 4 to 28 wt.% W and 0.1 to 1.72% C were studied. Alloys containing 0.1 to 0.61% C and 9.39 to 24.9% W were single-phased (Fig.1) with the exception of the alloy containing 0.35% C and 19.65% W where traces of a cutectic in the cobalt solid solution boundaries were With increase in carbon content, the solubility of Card 1/6

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The Limits of the Single-Phase ... 5/180/61/000/001/011/015 E021/E406

geometric line Ni-WC. Traces of al phase were detected in samples containing 30% Ni and 5.11% C (as WC). The alloy containing 15% Ni had traces of  $\eta_1$  phase when 5.88% C (as WC) was present. The boundary between the 2-phase (WC + Ni) and the 3-phase (WC + Ni +  $\eta_1$ ) in the case of the alloy containing 10% Ni was at a C content (as WC) of 6.04 to 6.10%. Some magnetic measurements were also made. These confirmed the metallographic analysis. There are 4 figures, 7 tables and 5 references:

SUBMITTED: June 15, 1960

card 1/3

Card 3/6

229711 229711 RELEASE: 08/23/2000 5/E1A-RDP86-00513R001548910019-3 Chaporova, I.N., and Shchetilina, Ye.A. The process of sintering and the structure of nickel carbide cobalt and tungsten carbide The process of sintering and the structure of the process of sintering and the structure nickel tungsten carbide carbide with a carbon deficit alloys with a carbon deficit Otdeleniye tekhnicheskikh 37-41

alloys with a carbon nauk 555R, 1961, No.3, pp. 37-41

restiya Akademii nauk 555R, 1961, No.3, pp. oroduction

periodical: Izvestiya Akademii toplivo, atudied using production

The process of sintering was atudied using process of sintering was atudied using process. TEXT: one for the sintering was rature the alloys different of sintering representations for the sintering early was used as the form of sintering early was used as the form of increased up to oled at teal) was of a sintering the sintering early was on a substantial of the sintering early was consistent in the sint of carbon was consistent in the substantial early was one appears that in the sint of increased with the sint of the substantial early was one appears that in the sint of the substantial early with a substantial early where a cted. Thus, a substantial early was a substantial early was early where a cted. Thus, a loys containing 30% cobalt, with a formed when insufficient falloys containing formed whis liquid.

Card 1/3 1.1600 AUTHORS: TITLE:

22974

The process of sintering and the .... carbon content in the tungsten carbide of 5.47 weight % and less, carbon content in the tungsten carbide of 0.1/ weight 70 and less, sintered at 1400 °C, have lakes of 71 phase, the size of which is greater than or equal to that of the tungsten carbide grains. With increasing carbon or cobalt content the Tl Phase, which formed in the solid state, can completely dissolve in the liquid and is then reprecipitated during cooling in the form of coarse crystals. Fast cooling from high temperatures above the liquidus can result lakes of 71 phase were observed after sintering at 1450 °C with With alloys containing 15 and 10% cobalt, carbon contents in the tungsten carbide of 5.88 and 5.94 weight % respectively. With increase in carbon content, crystals of \$\eta\_1\$ similar to those in the alloy containing 30% cobalt were observed. Further increase in carbon content in the 10% cobalt alloy resulted in \$\eta\_1\$ phase in a needle shaped or dendritic form in a can be precipitated at the tungsten carbide - cobalt boundary in With very low carbon deficit, the  $\eta_1$  phase the alloys containing 10, 15 and sometimes 30% cobalt. Investigations of the tungsten - carbon - nickel alloys gave similar results. In the alloy containing 30% cobalt, a carbon content in the tungsten carbide of 5.35 weight % or less resulted

2h196 s/129/61/000/007/011/016 E073/E535

15 2240

AUTHORS: Chaporova, I.N., Shchetilina, Ye. A. and Serebrova, O.I.

TITLE: Influence of Additional Tempering on the Properties of

the Carbides WC-Co

PERIODICAL: Metallovedeniye i termicheskaya obrabotka metallov. 1961. No.7. pp.44-46

TEXT: The authors investigated the carbides  $\mathbb{S}K + \mathbb{S}$  (VK4V).  $\mathbb{S}K + \mathbb{S}$  (VK6V),  $\mathbb{S}K + \mathbb{S}$  (VK6V) and  $\mathbb{S}K + \mathbb{S}$  (VK6M) after heat treatment. The specimens were heated in a resistance furnace for 1.5-2 hours at 750, 500, 250 and 150°C. The duration of soaking at the tempering temperature was 2 hours and this was followed by cooling at a rate of 2 C/min. From each batch specimens were taken for investigating the microstructure, determining the coercive force, the bending strength and for the alloy VK4V also the impact strength. The specimens from the carbides VK8V, VK6V and VK4V contained micrographite inclusions in addition to grains of a tungsten carbide and veins of the cobalt phase. The alloy VK6M had a two-phase composition. Granulometric analysis of the carbide phase showed that during heat treatment (tempering at Card 1/ $\mathbb{S}$ )

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Influence of Additional Tempering ... S/129/61/000/007/011/016 E073/E535

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various temperatures), the size of the tungsten carbide grains did not change either in the coarse grain carbides VK8V and VK4V, the medium grain carbide VK6V or in the fine grain carbide VK6M. The shape of the grains of the WC phase also did not change. No difference was observed in the coercive force values before and after temperang. A slight increase in the bending strength (by 8 to 10 kg/mm $^2$ ) was observed after tempering at 250°C. However, tempering at 500 and 750°C did not result in any change of the bending strength. Taking into consideration the square errors of the mean arithmetic values, it can be stated that even at 250°C the influence of tempering is insignificant and is almost entirely overshadowed by fluctuations of the average strength values. Tempering of the alloy VK6V at 250 and 500°C showed no influence on the bending strength. In tests with a second batch of specimens of the same alloy, an appreciable drop in the strength was observed (by 23 and 21 kg/mm<sup>2</sup>, respectively) for both tempering temperatures. Tests of the alloy VK4V at 750, 500, 250 and 150°C revealed in all cases a very slight tendency to a drop in the bending strength (by 6 to 13 kg/mm<sup>2</sup>) which did not exceed Card 2/5

Influence of Additional Tempering 5/129/61/000/007/011/016

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the limits of the fluctuations of the average strength values. No difference was observed between the impact strength values of the carbide VK4V before and after tempering. three different batches of the carbide VK6M was first carried out at 250. 500 and 750°C. In the batch tempered at 500°C, an appresiable increase in strength was observed, from 149 to 171 kg/mm. for verifying this all the three batches were again tempered at 500 C. The strength of the specimens of both batches corresponded to the initial state and for the third batch the strength values differed from the average ones. The investigations have shown that tempering of the carbides VK4V, VK6V and VK8V at 750, 500, 250 and 150°C does not produce any appreciable change in the properties. The investigated carbides contain graphite inclusions and, in the presence of graphite, decomposition of the Co solution is made easier and the composition of the cementing phase in the alloys was near to that of pure cobalt. Apparently additional heating does not thange the composition of the Co phase and, therefore does not have any influence on the properties of the The carried cut experiments and the explanation of Card 3/5

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influence of Additional Tempering ... S/129/61/000/007/011/016 E073/E535

the obtained results cannot be considered exhaustive. Since the changes in the properties of the alloys can be brought about by other factors (changes in the stress state of the alloy, phase transformations of the Co phase etc.). There are 1 figure, 2 tables and 3 references - 1 Soviet. 1 Austrian and 1 English: for increasing the tool service life)

[Abstractor's Note: This is an abridged translation.]

association: Vsescyuznyy Nauchno-issledovatel skiy institut tverdykh splavov (All Union Carbida Scientific Research Institute)

Card 4/5

LYALIKOV, S.I.; SHCHETININA, Ye., red.; ZHEMANYAN, N., tekhn. red.

[Poisonings by toxic chemicals and first aid for them] Otravleniia iadokhimikatami i pervia pomoshch' pri nikh. Izd.2., dop. Ki-shinev, Karta moldoveniaske, 1962. 61 p. (MIRA 15:6) (POISONING)

EWP(e)/EWT(m)/EPF(c)/EPF(n)-2/EWP(t)/EPR/EWP(b) Pr-4/Pad/Ps-4/ JD/HW/JG/AT/WH 5/0279/64/000/006/0142/0147 IJP(c) ACCESSION NR: AP5001617 AUTHOR: Shchetilina, Ye. A. (Moscow); Tumanov, V. I. (Moscow); Serebrova, O.I. (Moscow) TITLE: The solubility of refractory metal carbides in cobalt SOURCE: AN SSSR. Izvestiya. Metallurgiya i gornoye delo, no. 6, 1964, 142-147 TOPIC TAGS: Co-Mo2C, Co-WC, Co-TaC, Co-NbC, Co-TiC, refractory metal carbide solubility, refractory, cobalt containing carbide ABSTRACT: The solubility of carbides of the group IV-VI metals of the periodic system depended on the C content in the initial carbides and the conditions of alloy preparation. The solubility of Mo<sub>2</sub>C, WC, TaC, NbC, TiC, of TiCWC, TaCWC and NbCWC (30 wt. % MC and 70 wt. % WC), and of NbCWC (2:98) was greater when melting was in a helium atmosphere than in a hydrogen atmosphere, and was least when operating under carburizing conditions. The maximum solubilities in Co in the presence of structurally free C were 6% WC, 4% Mo2C and 0.5 mol% TaC, NbC and TiC. The maximum solubility of TiCWC was 0.5% and Card 1/2

L 26052-65

ACCESSION NR: AP5001617

of TaCWC and NbCWC (30:70), 1%. The solubility of these carbides in Co was determined by their crystal structure and the value and the nature of the metalcarbon bond. Mo<sub>2</sub>C and WC stabilized the cubic modification of Co and increased the lattice spacing; Co atoms in the Co- $\beta$  phase were substituted by the Mo andC atoms, and C atoms were located interstitially in the Co lattice. TaC, TiC and NbC did not change the Co lattice spacing; partial bonds between the Ta, Ti of Nb and the C were retained when these carbides were dissolved in Co. The maximum C content can be obtained in solid solutions based on Co with the introduction of carbides when the samples are melted or sintered under carburizing conditions. Orig. art. has: 1 figure and 5 tables

ASSOCIATION: None

SUBMITTED: 23Apr63

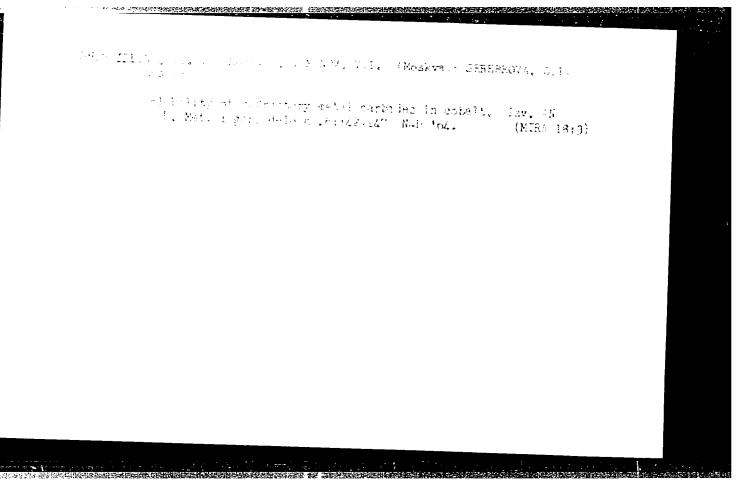
ENCL: 00

SUB CODE: IC, GC

NR REF SOV: 010

OTHER: 002

Card 2/2



MYZNIKOV, V. (Khar'kov); MIROSHNICHENKO, M. (Khar'kov); SHCHETINA, A., frezerovshchitsa, delegat XXII s"yezda Kommunisticheskoy partii Sovetskogo Soyuza (Khar'kov); DOMRIN, I. (Khar'kov); VARFOLOMEYEV, V. (Khar'kov)

Approved and... forgotten. Sov. profsoiuzy 18 no.4:20 F '62. (MIRA 15:3)

1. Reydovaya brigada zhurnala "Sovetskiye profsoyuzy". 2. Rukovo-ditel' brigady kommunisticheskogo truda imeni XXII s"yezda Kommunisticheskoy partii Sovetskogo Soyuza 3-go mashinnogo tsekha Khar'kovskogo elektromekhanicheskogo zavoda (for Myznikov).

3. Sekretar' partorganizatsii 5-go apparatnogo tsekha Khar'kovskogo elektromekhanicheskogo zavoda (for Miroshnichenko). 4. 3-y mashinnyy tsekh normalizovannykh detaley Khar'kovskogo elektromekhanicheskogo zavoda (for Domrin). 5. Spetsial'nyy korrespondent zhurnala "Sovetskiye profsoyuzy" (for Varfolomeyev).

(Kharkov—Llectric industries—Hygienic aspects)

(Industrial hygiene)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548910019-3"

SHCH TITA, F., polkowick, voyennyy latekik perveno klassa;
SUBJET, E., padpolkowick, voyennyy shturman perveno klassa
On a long route. Av. i kosm. no.1:18-22 F 166.

(MIPA 19:1)

SHCHETINA, F.S., gvardii podpolkovnik, voyennyy letchik pervogo klassa

In a transport plane. Vest.Vozd.Fl. no.6:29-32 Je '61.

(NIRA 14:8)

(Transport planes---Piloting)

Automobiles - Springs  Examining a step-like bump and its effect upon the displacement of the spring-mounted units. Avt. trakt. prom. No. 1, 1953.	
Myamining a sten-like bump and its effort upon the displacement of the spring-mounted	
Examining a step-like bump and its effort upon the displacement of the spring-mounted units. Avt. brakt. prom. No. 1, 1953.	
	of the spring-mounted
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iura 1052 Hu-l	iura 2052 III-l
9. Monthly List of Russian Accessions. Library of Congress, June 1953, Uncl.	1953, Unc1.

#### CIA-RDP86-00513R001548910019-3 "APPROVED FOR RELEASE: 08/23/2000

SOV-113-58-10-15/16

Bacherina, V.A., Candidate of Technical Sciences, Yurushkin, AUTHORS:

G.A.

Czech Cargo Trucks (Chekhoslovatskiye gruzovyye avtomobili) TITLE:

Avtomobil naya promyshlennost, 1958, Nr 10, p 43-46 (USSR) PERIODICAL:

The present development of Czech cargo truck building is re-ABSTRACT: viewed. Tables 1 and 2 contain data on contemporary Czech

trucks and their engines. The production of the truck Tatra-111 was discontinued in 1958. All Tatra engines are aircooled while those of the other trucks are water-cooled. Diesel engines with horse power ratings ranging from 60 to 340 hp are being developed at the Tatra plant, for example T-924 and T-926, the latter a six cylinder V engine. In 1957 experiments were conducted with the 12-cylinder V-engines T-930 and T-930K (with supercharger). The tests will be completed in 1958 and the mass production of the engines

is scheduled for 1959. The indexes of some of the new aircooled Tatra engines are better than those of comparable engines in Germany. The Tatra-805, 4x4, is equipped with a

tire pressure control system with which the tires may be inflated or deflated according to terrain conditions. Tests

Card 1/2

Grech Cargo Trucks

SOV-113-58-10-15/16

showed that the tire pressure control system worked reliably over 28,000 km. The use of the truck chassis and engines for building buses and other municipal vehicles is mentioned briefly. There are six photos, one diagram and two tables.

1. Cargo vehicles--Czechoslovakia 2 Cargo vehicles--Properties

Card 2/2

SHCHETINIE, A. (g. Ust'-Kamenogorsk)

Let us regulate the certification of freight in automotive transportation. Bukhg. uchet. 15 no.8:23-28 ag '56. (MLRA 9:0)

1. Zamestitel' glavnogo bukhgaltera tresta "Altaysvinetsstroy." (Transportation, Automotive---Records and correspondence)

SHCHETININ, A.

Bureaus of clearing payments attached to construction trusts, and tusiness accumting. Den. i kred. 20 no.4:71-74 ap '62.

(NIRA 15:4)

1. Glavny, bukhgalter tresta "Altaysvinetsstroy".

(Altai Territory--Clearinghouse)



PHASE I BOOK EXPLOITATION

sov/3832

Greben', Mikhail Lazarevich, and Anatoliy Aleksandrovich Shchetinin

Regulirovaniye parovykh turbin Leningradskogo Metallicheskogo zavoda; konstruktsiya, ispytaniye i naladka (Control of Steam Turbines of the Leningrad Metal Plant; Design, Testing and Adjustment) Moscow, Gosenergoizdat, 1959. 182 p. Errata slip inserted. 7,000 copies printed.

Ed.: B.M. Levin; Tech. Ed.: O.S. Zhitnikova.

PURPOSE: This book is intended for engineers and technicians engaged in the operation and repair of steam turbines and also for workers in assembly and design organizations. It may also be used by students specializing in the study of steam turbines at schools of higher technical education and tekhnikums.

COVERAGE: Control systems for high-pressure steam turbines produced by the Leningrad Metal Works are described in this book. Types of automatic control units and elements designed for the production of turbines against racing are covered. The lubrication system and the tightness of the steam distribution system are also studied. Detailed information on various tests for control system adjustments and a program

Card 1/6

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S/190/60/002/011/022/027 B004/B060

//. 22/7 AUTHORS:

Zubov, V. P., Kabanov, V. A., Kargin, V. A.,

Shchetinin, A. A.

TITLE:

Effect of Pressure on the Formation of the Microstructure

of Polymer Chains in the Polymerization Process

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, 1960, Vol. 2, No. 11,

pp. 1722 - 1727

TEXT: The ratio  $k_i/k_g$  of the reaction rates of the formation of isotactic and syndiotactic structures of a polymer can be influenced by stereospecific catalysts, and also according to T. G. Fox (kef.1), by the reaction temperature. The authors wanted to study the effect of pressure on the said ratio  $k_i/k_s$ . Proceeding from the theory of absolute reaction rates and taking into account a different compressibility of the initial components and the intermediate complex they obtained the equation:  $\ln(k_i/k_s) = \delta V^* p/RT - \Delta a^* p^2/2RT + 2\Delta b p^3/3RT - \ln(k_{ci}/k_{cs})$ 

Card 1/3

Effect of Pressure on the Formation of the S/190/60/002/011/022/027 Microstructure of Polymer Chains in the B004/B060 Polymerization Process

 $\delta V_{0}^{*}$  denotes the difference between the volumes of the syndictactic and isotactic intermediate complexes at normal pressure,  $\Delta a^*$  is the difference between the coefficients of compressibility of the initial components,  $\Delta b$  the difference between the coefficients of compressibility of the intermediate complexes,  $\mathbf{k}_{\text{oi}}$  and  $\mathbf{k}_{\text{os}}$  the rate constarts of iso- and syndiotactic addition at normal pressure. The value dity of this equation was proved experimentally, by way of producing polymethyl methacrylate in a pressure range of 2000 7500 atm. The with fication temperature of the polymer dropped with pressure increase. Since the isotactic polymer has a vitrification temperature of 50-55°C, and the syndiotactic polymer has one in the range of 130-135°C, the drop of the vitrification temperature means an increase of the isotartic structure content, and thus, an increase of the value of  $k_i/k_s$ . It was found by the determination of density  $\varrho$  and by taking into account the relation  $k_1/k_s = \varrho_i(\varrho+\varrho_s)/\varrho_s(\varrho_i-\varrho)$  that  $k_i/k_s$  increases from 0.33 at 1 atm to 0.54 at 7500 atm. The isotactic structure content increases Card 2/3

85423

Effect of Pressure on the Formation of the  $S/90/60/002/01^{\circ}/022/027$  Microstructure of Polymer Chains in the B004/B060 Polymerization Process

from 0.25 at 1 atm to 0.35 at 7500 atm. The difference  $\Delta\chi$  of the sompressibility coefficients of the isomend syndictable structure was found, by way of experimental data, to have the value of 6.1.10.6 ... 1.8.10 p. A pressure increase leads to a preferential formation of the intermediate complex with denser molecular package. P. P. Kobeko is mentioned. There are 2 figures 1 table and 5 references; 2 Soviet, 2 US, and 1 German.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im.

M. V. Lomonosova (Moscow State University imeni
M. V. Lomonosov)

SUBMITTED: June 16, 1960

Card 3/3

11.2600 ROTHORS: 36282 5/190/62/004/004/004/019 B119/B138

Shehetinin, A. A., Topchiyeva, I. H., Shabarov, Yu. S.,

Levina, R. Ya.

Cyclopropanes and cyclobutanes. XXIII. Polymerization of aryl cyclopropanes at high pressures and temperatures TITLE:

Vysokomolekulyarnyye soyedineniya, v. 4, no. 4, 1962, 499-502

TEXT: The effect of high pressures (500-7500 atm) on phenyl-, p-nminophenyl-, p-dimethyl aminophenyl-, p-chlorophenyl, p-hydroxyphenyl-, p-met\_oxyphenyl cyclopropane, and p-methoxyphenyl cyclobutane between

100 and 200°C was investigated. Of these only p-hydroxy- and p-methoxyphenyl cyclopropane undergo polymerization. The latter gives a viscous oil at 500 atm and 200°C, a solid polymer at 7500 atm and 200°C. With hydroquinone as innibitor only a viscous liquid is formed at 7500 atm. Therefore, polymerization takes place by the free-radical mechanism. Only cyclopropane rings participate in the polymerization. The end product of the thermal decomposition and the subsequent oxidation of the

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B119/B138 Cyclopropand and cyclobutanes. ...

polymer is anisic acid. There is 1 table.

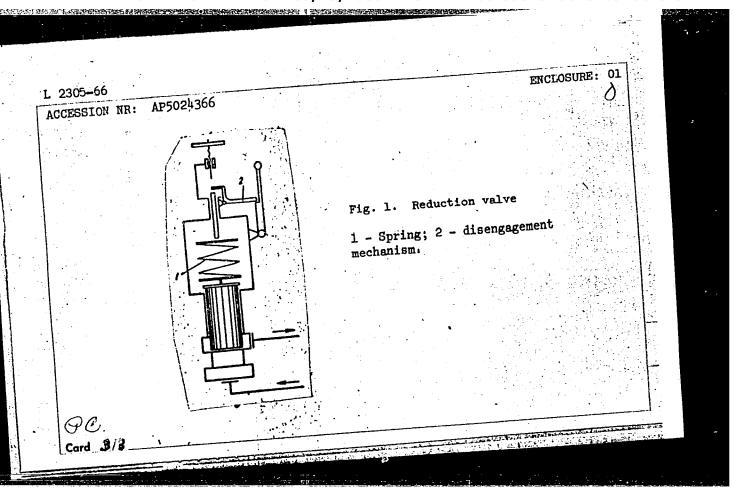
ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

March 6, 1961 SUBMITTED:

Card 2/2

	A	
L 2305-66 EWT(d)/EPA/EWT(m)/EPF(c)/EWP(f)/	/EPF(n)-2/EWP(v)/T/EWP(k)/EWP(h)/EWP(1)/ETC	(m)
ACCESSION NR: AP5024366	UR/0286/65/000/015/0035/0035 621.165-543.2	
AUTHOR: Shchetinin, A. A.	51 B	
TITLE: Reduction valve for oil-feed systems in	in turbomachines. Class 14, No. 173246	
SOURCE: Byulleten' izobreteniy i tovarnykh zr	nakov, no. 15, 1965, 35	
TOPIC TAGS: reduction valve, gas turbine, ste system	eam turbine, cil system, oil feed	
ABSTRACT: An Author Certificate has been issu		
systems in turbomachines, e.g., steam or gas to valve casing with a draw spring. For increase with a lever-type disengagement machanism which	ed reliability, the valve is furnished	
directly or remotely controlled (see Fig. 1 of 1 figure.		
ASSOCIATION: Leningradskiy metallicheskiy zav Metal Plant)	wod im, XXII s"yezda KPSS (Lenungrad)	
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SHCHETININ, A.F.

Experience with heating the roller dryer with hot water. Der. prom. 10 no.7:24-25 Jl '61. (MIRA 14:7)

1. Klaypedskiy fanernyy zavod. (Drying apparatus)

KALIBERDA, V.M., kand. sel'skokhoz. nauk; SULIMOVSKIY, I.G., kand. sel'skokhoz. nauk; BUKHAN'KO, Ye.P.; LOGVINENKO, V.A., agronom; KOVALENKO, A.P.; PODGORNYY, P.I., prof. zasluzhennyy deyatel' nauki Ukrainskoy SSR; FEDOTOV, V.A., aspirant; KURBATOV, I.D., agronom; KOZEYEV, V.I.; SHCHETININ, A.I.; KORCHAGIN, V.A., kand. sel'skokhoz. nauk; SOGURENKO, V.P.; KOSTROV, K.A., kand. sel'skokhoz. nauk; DULYA, F.M.; SHERSTNEV, N.F., aspirant

Crops preceding winter crops in various zones. Zemledelie 27 no.7: 26-45 Jl '65. (MIRA 18:7)

- 1. Ukrainskaya sel'skokhozyaystvennaya akademiya (for Kaliberda).
- 2. Odesskiy sel'skokhozyaystvennyy institut (for Sulimovskiy).
- 3. Odesskaya oblastnaya sel'skokhozyaystvennaya opytnaya stantsiya (for Bukhan'ko). 4. Kolkhoz imeni Kirova, Mar'inskogo rayona Donetskoy oblasti (for Logvinenko). 5. Donetskaya oblastnaya sel'skokhozyaystvennaya opytnaya stantsiya (for Kovalenko). 6. Voronezhskiy sel'skokhozyaystvennyy institut (for Fedotov). 7. Alekseyevskoye rayonnoye proizvodstvennoye upravleniye sel'skogo khozyaystva, Belgorodskoy oblasti (for Kurbatov). 8. Bezenchukskaya sel'skokhozyaystvennaya opytnaya stantsiya (for Korchagin). 9. Direktor Bykovskoy opytnoy stantsii bakhchevodstva (for Sogurenko). 10. Mordovskaya sel'skokhozyaystvennaya opytnaya stantsiya (for Kostrov). 11. Direktor sovkhoza "Khleborobnyy", Smolenskogo rayona, Altayskogo kraya (for Dulya). 12. Altayskiy sel'skokhozyaystvennyy institut (for Sherstnev).

SHCHETININ, A.P., inzhener.

Establishing an engineering manual on the elimination of radio interference.

Elektrichestvo no.12:89 D '53. (MIRA 6:11)

1. Gosudarstvennaya radioinspektsiya. (Radio--Interference)

Radio interference and its control. Fiz. v makele 13 no.5:45-47 S-0 153.

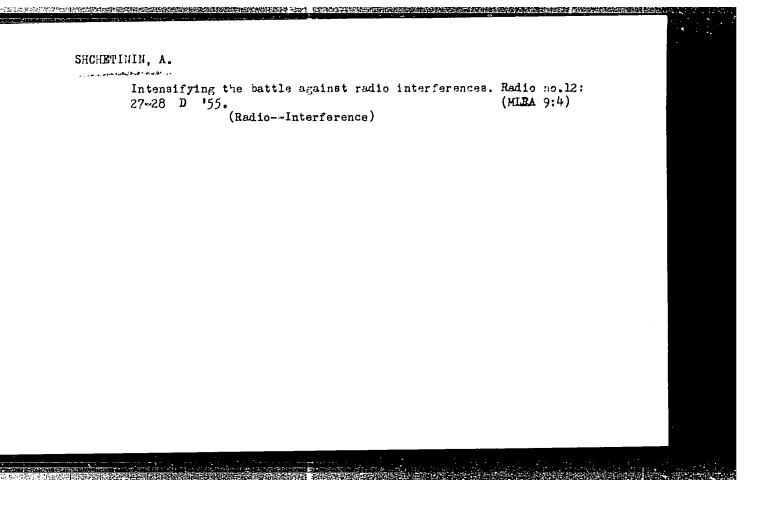
(MLM 6:3)

1. Gosudarstvennava radioinspektsiya pri Ministerstva svyazi SSSR.

(Radio--Interference)

SHCHETININ, Aleksandr Petrovich; LYUTOV, S.A., redaktor; GALOYAN, M.A. redaktor; SONOLOVA, R.Ya., tekhnicheskiy redaktor.

[Eliminating radio interference] Ustranenie pomekh radiopriemu-Moskva, Gos.izd-volit-ry po voprosam sviazi i radio, 1955. 120 p. (Radio-Interference) (MLRA 9:1)



KOSIKOV, K.M.; MITITELLO, B.F.; MODEL, A.M.; SAVITSKIY, G.A.; FEDUROVICH, Ye.G. SHCHETININ, A.P., FEDUNIN, G.A., otv.red.; GALOYAN, M.A., red. SHEFFER, G.I., tekhn.red.

[Handbook for electric communications]. Inzhenerno-tekhnicheskii spravochnik po elektrosviazi. Hoskva, Gos.izd-vo lit-ry po voorosan sviazi i radio. Vol.8, [Radio], Radiosviazi. 1958. 500 p. (MIRA 11:3)

1. Russia (1923- U.S.S.R) Ministerstvo svyazi. (Radio)

AVERBUXH, Solomon Khononovich; KNELLER, Il'ya Aronovich; KRUKOVETS, Faina Isaakovna. Prinimali uchastiye: FETTER, N.N.; AZBEL', Ya.I.. BREYTBART, A.Ya., retsenzent, otv.red.; SHCHETININ, A.P., retsenzent; VENGRENYUK, L.I., red.; SHEFER, G.I., tekhn.red.

[Industrial interferences to television and methods for their suppression] Industrial nye pomekhi televidenilu i metody ikh podavlenila. Moskva, Gos.izd-vo lit-ry po voprosam sviazi i radio, 1960. 66 p. (MIRA 13:5)

1. TSentr tekhnicheskogo radiokontrolya (TsTRK) (for Fetter, Azbel!).

(Television--Interference)

ZHONDETSKAYA, C.D.; FOLONSKIY, N.B.; SHCHETININ, A.P., otv. red.;

VENCRENYUK, L.I., red.; SHEFER, C.I., tekhn. red

[Overall suppression of industrial radio interference] Kompleksnoe podavlenie radiopomekh ot promyshlennykh predpriiatii.

Moskva, Gos.izd-vo lit-ry po voprosam sviazi i radio, 1961. 55 p.

(Radio—Interference)

(Radio—Interference)

SHCHETININ, A.S., inzh.; ARTYUKOV, N.F., inzh.

Mechanized equipment for making brick blocks. Rats. i izobr.
predl. v stroi. no.2:23-28 '57.

1.Upravleniye zhilstroya, Stalingrad.
(Building blocks) (Building machinery)

ZUBOV, V.P.; KABANOV, V.A.; KARGIN, V.A.; SHCHETININ, A.A.

Effect of pressure on the formation of microstructure in polymer chains in the course of the polymerization process. Vysokom. soed. 2 no. 11:1722-1727 N '60. (MIRA 13:11)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.

(Polymerization) (Methacrylic acid)